KOCHETKOV, N.K.; DERKVITSKAYA, V.A.; MOLODTSOV, N.V.

Glycopeptides. Part 3: Synthesis of N-aminoacyl derivatives of amino sugars. Zhur.ob.khim. 32 no.8:2500-2505 Ag '62. (MIRA 15:9)

(Sugars)

KOCHETKOV, N.K.; DMITRIYEV, B.A.; USOV, A.I.

Chromatography of monosaccharide derivatives in a thin layer of aluminum oxide. Dokl. AN SSSR 143 no.4:863-866 Ap '62. (MIRA 15:3)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
2. Chlen-korrespondent AN SSSR (for Kochetkov).
(Monosaccharides) (Chromatographic analysis)

KHORLIN, A.Ya.; BOCHKOV, A.F.; BARINOVSKIY, L.V.; KOCHETKOV, N.K.

Glucosidation of 2-O-trichloroacetyl-3,4,6-tetraacetyl-β-D-glucopyranosyl chlorides. Dokl. AN SSSR 143 no.5: 1119-1122 Ap '62. (MIRA 15:4)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).
(Glucopyranosyl chloride) (Glycosides)

KOCHETKOV, N.K.; ZHUKOVA, I.G.; OLUKHOMED, I.S.

Thin-layer chromatography of sphingosine derivatives. Dokl. AN SSSR 147 no.2:376-379 N '62. (MIRA 15:11)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
2. Chlen-korrespondent AN SSSR (for Kochetkov).
(Sphingosine)
(Chromatographic analysis)

KOCHETKOV, N. K.; VUL'FSON, N. S.; CHIZHOV, O. S.; ZOLOTAREV, B. M.

Mass spectrometry of carbohydrates. Methyl ethers of monosaccharides. Dokl. AN SSSR 147 no.6:1369-1372 D '62.
(MIRA 16:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Korshak).

(Monosaccharides—Spectra)

KOCHETKOV, N. K.; VULFSON, N. S.; CHIZHOV, O. S.; SOLOTAREV, B. M.

Co-author of a paper entitled, "The Use of Mass Spectrometry in Carbohydrate Research".
19th International Congress of Pure and Applied Chemistry ~~63~~ London, 10-17 Jul 63

Institute for Chemistry of Natural Products, USSR Academy of Sciences.

AMBARTSUMYAN, V.A., akademik; ASRATYAN, E.A.; BOGOLYUBOV, N.N., akademik; VINOGRADOV, A.P., akademik; GINETSINSKIY, A.G.; KHUDYANTS, I.L., akademik; KOCHETKOV, N.K.; KURSANOV, A.L., akademik; MEL'NIKOV, O.A.; NESMEYANOV, A.N., akademik; NESMEYANOV, An.N., doktor khim. nauk; OPARIN, I.V., akademik; POLIVANOV, M.K., kand.fiz.-mat.nauk; REUTOV, O.A.; RYZHKOV, V.L.; SPITSIN, V.I., akademik; TAMM, I.Ye., akademik; FESENKOV, V.G., akademik; FOK, V.A., akademik; SHCHERBAKOV, D.I., akademik; FRANK, I.M.; FRANK, G.M.; KHOKHLOV, A.S., doktor khim. nauk; SHEMYAKIN, M.M., akademik; ENGEL'GARDT, V.A., akademik; SHAPOSHNIKOV, V.N., akademik; BOYARSKIY, V.A.; LIKHTENSHTEYN, Ye.S.; VYAZEMTSEVA, V.N., red.izd-va; KIYAYS, Ye.V., red.izd-va; TARASENKO, V.M., red.izd-va; POLYAKOVA, T.V., tekhn. red.

[As seen by a scientis: From the Earth to galaxies, To the atomic nucleus, From the atom to the molecule, From the molecule to the organism] Glazami uchenogo: Ot Zemli do galaktik, K iadru atoma domolekuly, Ot molekuly do organizma. Moskva, Izd-vo AN SSSR, 1963. 736 p. (MIRA 16:12)

1. Akademiya nauk SSSR. 2. Chlen-korrespondent AN SSSR (for Asratyan, Ginetsinskiy, Kochetkov, Mel'nikov, Reutov, Ryzhkov, Frank,I.M., Frank, G.M.)
(Astronomy) (Nuclear physics) (Chemistry) (Biology)

KOCHETKOV, N.K.; DARKVITSKAYA, V.A.; LIKHOSHERSTOV, L.M.

Glycopeptides. Report No.5: Stability of the ester bond of O-aminoacyl derivatives of glucose. Izv. AN SSSR. Otd.khim. nauk no.4:688-695 Ap '63. (MIRA 16:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Glucose) (Esters)

SOKOLOV, S.D.; ASHKINADZE, L.D.; CHLENOV, M.A.; KOCHETKOV, N.K.

Structure of 3-methyl-4-nitroisoxazolin-5-one. Izv.AN SSSR Otd.khim.nauk no.5:946-947 My '63. (MIRA 16:8)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Oxazolinone)

KOCHETKOV, N.K.; USOV, A.I.

Monosaccharides. Report No.5: Behavior of some monosaccharide derivatives in the reaction with triphenyl phosphite iodomethylate. Izv. AN SSSR. Ser.khim. no.7:1243-1253 Jl '63. (MIRA 16:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Monosaccharides) (Phosphorus organic compounds)
(Iodine compounds)

KOCHETKOV, N.K.; KHORLIN, A.Ya.; VAS'KOVSKIY, V.Ye.

Triterpenic saponins. Report No.4: Structure of aralosides A and B. Izv.AN SSSR.Ser.khim. no.8:1398-1408 Ag '63. (MIRA 16:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Saponins) (Glycosides)

KOCHETKOV, N.K.; KHORLIN, A.Ya.; VAS'KOVSKIY, V.Ye.

Triterpenic saponins. Report No.5: Structure of aralosides A and B. Izv.AN SSSR.Ser.khim. no.8:1409-1416 Ag '63. (MIRA 16:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Saponins) (Glycosides)

KOCHETKOV, N.K.; BUDOVSKIY, E.I.; SHIBAYEV, V.N.; GRACHEV, M.A.

Analogs of enzymes of carbohydrate metabolism. Report No.3: Synthesis of 4-thiouridine diphosphate glucose. Izv. AN SSSR. Ser.khim. no.9:1592-1600 S '63. (MIRA 16:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.
(Uridine phosphates) (Glucose) (Enzymes)

SOKOLOV, S.D.; KOCHETKOV, N.K.

Isoxazole series. Part 14: Bromination of the side chain of methylisoxazoles. Zhur.ob.khim. 33 no.4:1192-1196 Ap '63. (MIRA 16:5)

(Isoxazole) (Bromination)

KOCHETKOV, N.K.; SOKOLOV, S.D.

Isoxazole series. Part 15: Organomagnesium synthesis in the isoxazole series. Zhur.ob.khim. 33 no.4:1196-1199 Ap '63. (MIRA 16:5)

(Isoxazole) (Magnesium organic compounds)

LIKHOSHERSTOV, A.M.; LIKHOSHERSTOV, L.M.; KOCHETKOV, N.K.

Pyrrolizine alkaloids. Part 5: General way of synthesizing natural amino alcohols of the pyrrolizine and quinolizine series. Zhur. ob.khim. 33 no.6:1801-1807 Je '63. (MIRA 16:7)

1. Institut farmakologii i khimioterapii AMN SSSR.
(Alkaloids) (Pyrrolizine) (Quinolizine)

KOCHETKOV, N.K.; SOKOLOV, S.D.

Isoxasole series. Part 16: Degradation of 4-haloisoxasoles under the conditions of Grignard reaction. Zhur. ob. khim. 33 no.5:1442-1446 My '63. (MIRA 16:6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Isoxasole) (Grignard reagents)

KOCHETKOV, N.K.; VASIL'YEV, A.Ye.; LEVCHENKO, S.N.

Synthesis of lactone(I)-intergerrinecic acid. Zhur.ob.khim. 33 no.6:2078 Je '63. (MIRA 16:7)

1. Institut farmakologii i khimioterapii AMN SSSR.
(Alkaloids) (Senecio acid)

NIFANT'YEV, E.Ye.; GRACHEV, M.A.; BAKINOVSKIY, L.V.; KARA-MURZA, S.G.; KOCHETKOV, N.K.

Synthesis of methyl β-chlorovinyl ketone. Zhur.prikl.khim. 36 no.3: 676-678 My '63. (MIRA 16:5)

(Ketone) (Vinyl compounds)

KUDRYAVTSEVA, T.A.; CHIRKOV, N.M.; KOCHETKOV, N.K.

Kinetics of the substitution reaction of chlorine atoms in some aryl-β-chlorovinyl ketones. Dokl. AN SSSR 148 no.2:347-349 Ja '63. (MIRA 16:2)

1. Institut khimicheskoy fiziki AN SSSR. Predstavleno akademikom V.N. Kondrat'yevym.

(Ketone) (Chlorine) (Substitution (Chemistry))

KOCHETKOV, N.K.; KHORLIN, A.Ya.

Oligosides, a new type of plant glycosides. Dokl. AN SSSR 150 no.6:1289-1292 Je '63. (MIRA 16:8)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

(Glycosides)

KOCHETKOV, N.K.; DMITRIYEV, B.A.

Wittig reaction in the carbohydrate series. Dokl. AN SSSR 151 no.1:106-109 Jl '63. (MIRA 16:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).
(Carbohydrates) (Wittig reaction)

KOCHETKOV, N.K.; VUL'FSON, N.S.; CHIZHOV, O.S.; ZOLOTAREV, B.M.

Mass spectrometric study of carbohydrates. Methyl ethers and acetates of glucosides. Dokl. AN SSSR 151 no.2:336-339 Jl '63. (MIRA 16:7)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).
(Glycosides) (Mass spectrometry)

KOCHETKOV, N.K.; KARA-MURZA, S.G.; DEREVITSKAYA, V.A.

Structure of the blood group substances. Hydroxylaminolysis of the blood group substance A and the general structure of the biopolymer. Dokl. AN SSSR 153 no.6:1338-1341 D '63. (MIRA 17:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

KOCHETKOV, Nikolay Konstantinovich

"New synthesis of glycosides".

report submitted for the International Symposium on the Chemistry of Carbohydrates, Muenster, West Germany, 13-17 Jul 64

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Report to be submitted for the 3rd Intl. Symposium on the Chemistry of Natural Products (IUPAC), Kyoto, Japan, 12-18 April 1964.

KOCHETKOV, Nikolay Konstantinovich; DMITRIYEV, V. A.

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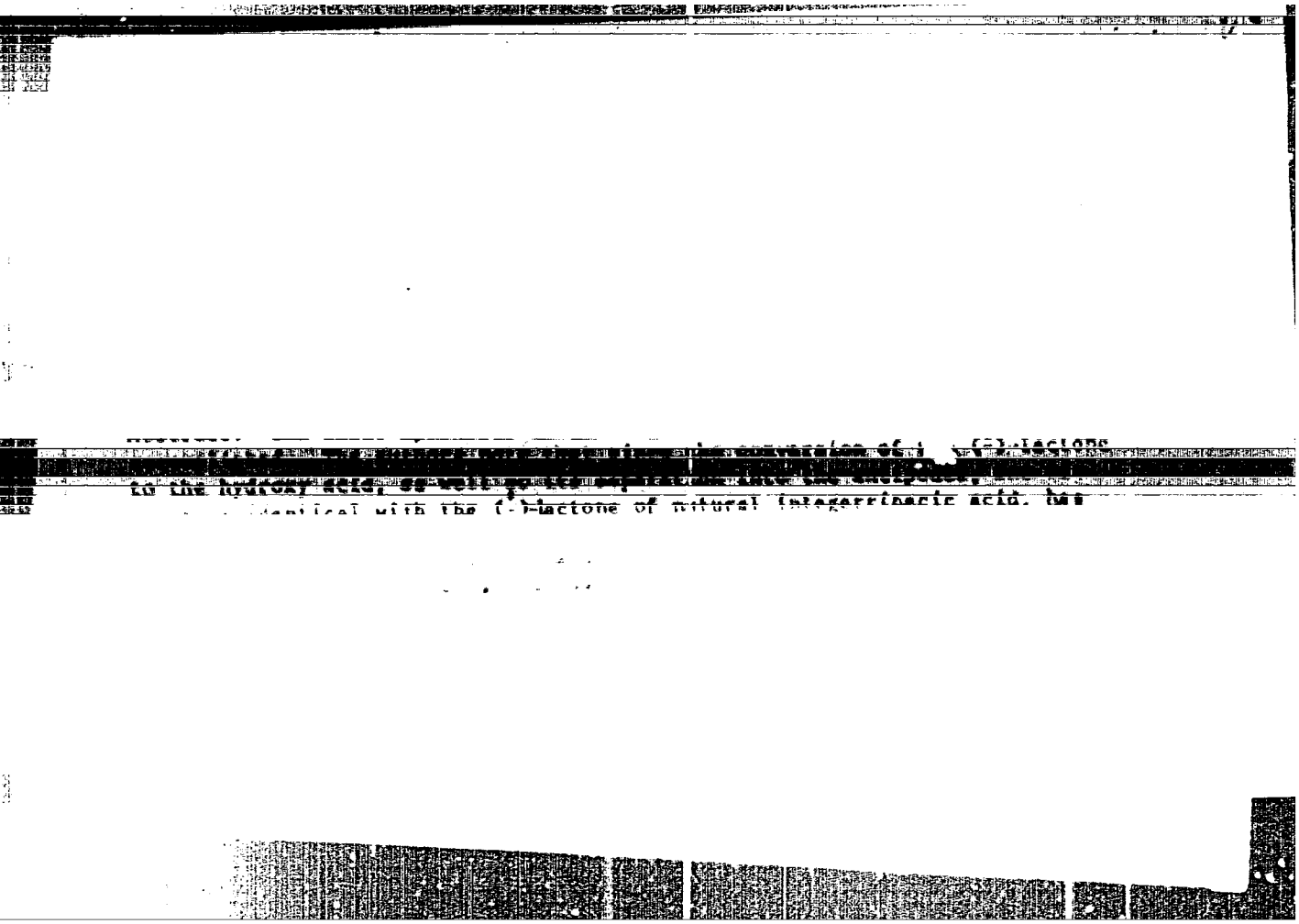
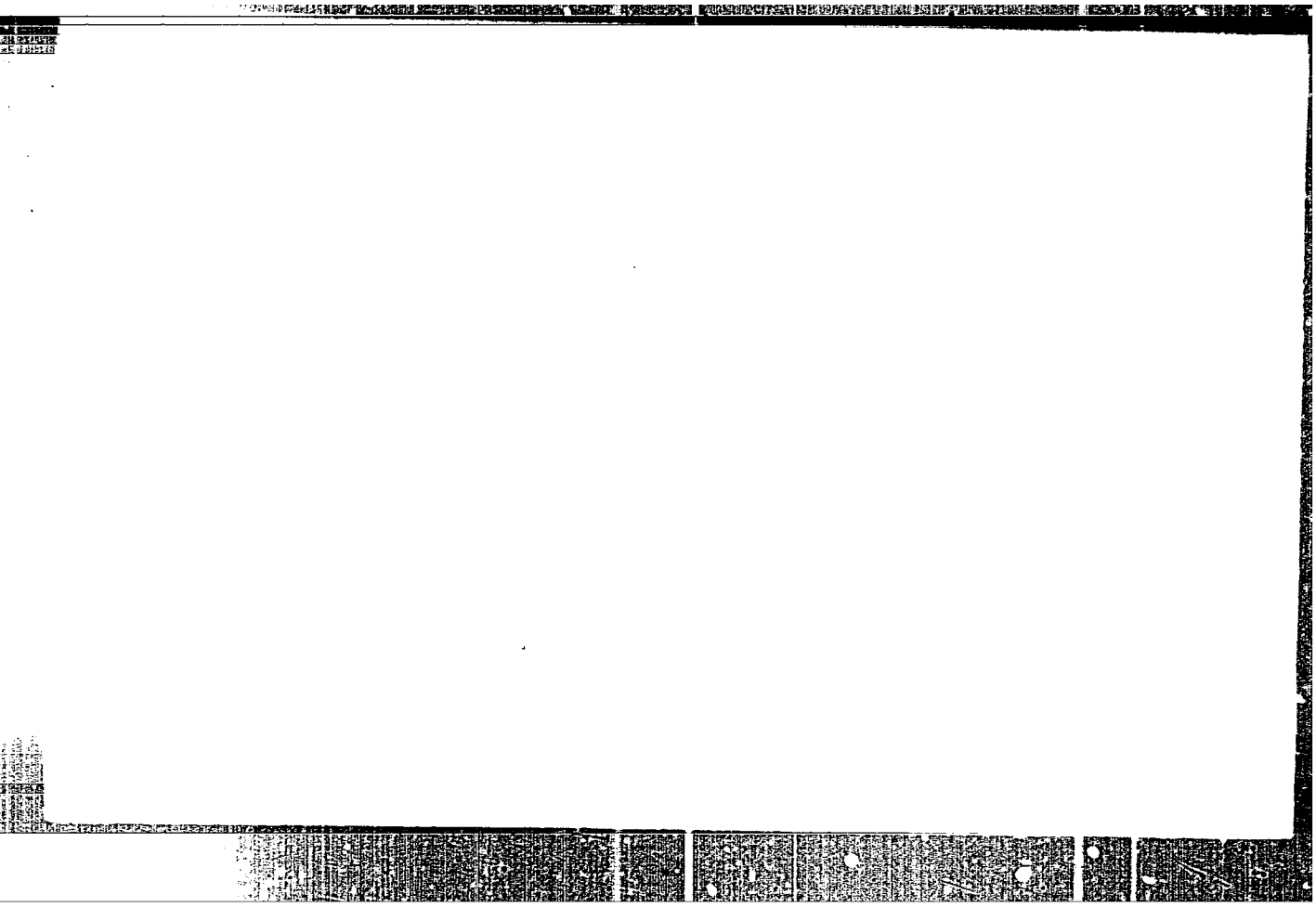
KOCHETKOV, N.K.; ZHUKOVA, I.G.; GLUKHODED, I.S.

New type of sphingolipid: sphingoplasmalogens. Biokhimiia 29 no.3: 570-575 My-Je '64. (MIRA 18:4)

1. Laboratoriya khimii uglevodov i nukleotidov Instituta khimii prirodnykh soyedineniy AN SSSR, Moskva.





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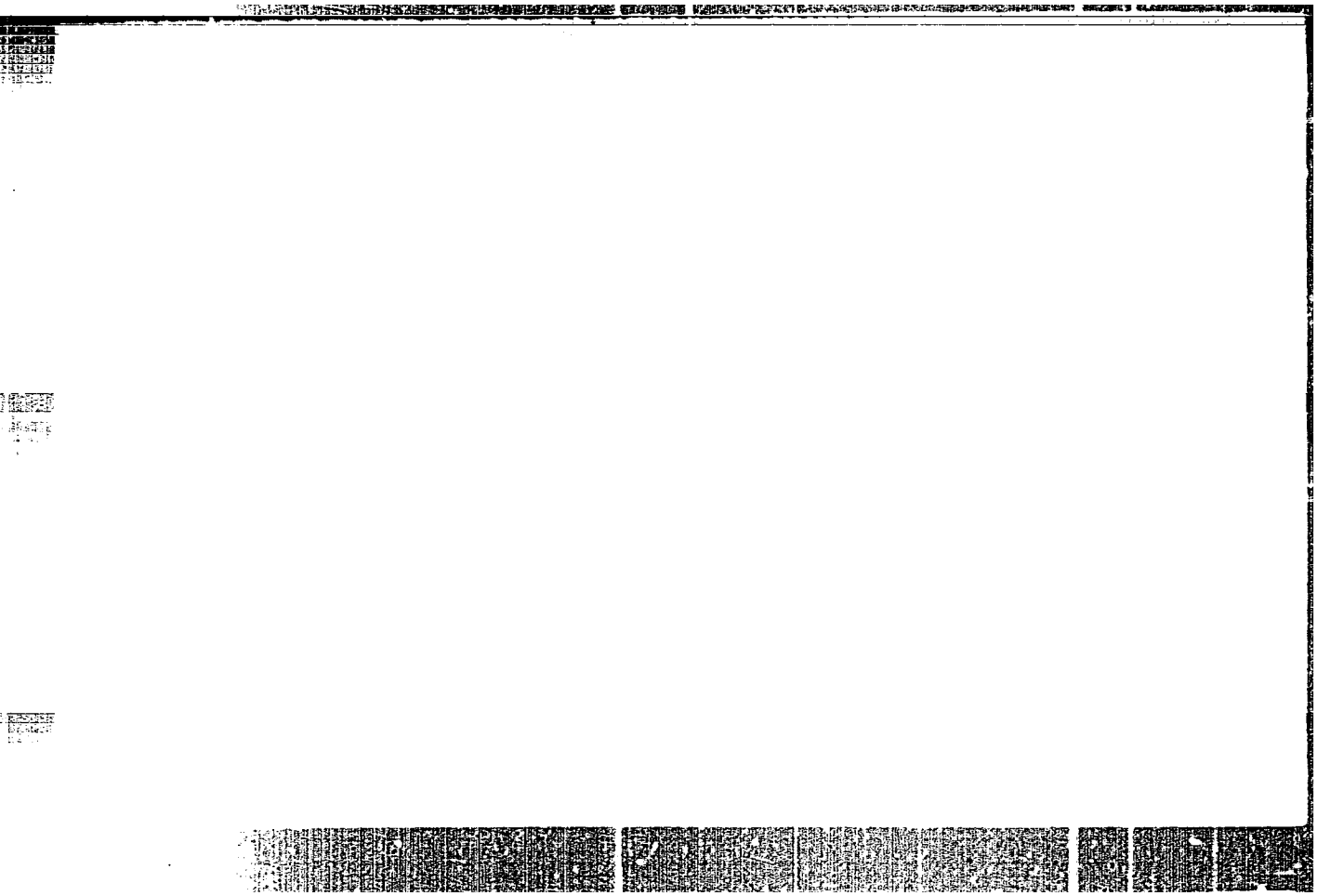

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KOCHETKOV, N.K.

Chemistry of nucleic acids. Vest. AN SSSR 34 no.10:43-49 O '64.
(MIRA 17:11)

1. Chlen-korrespondent AN SSSR.

KOCHETKOV, N.K.; KHORLIN, A.Ya.; SHYATKOVA, V.I.

Triterpene saponins. Report No.13: Halolysis of glycosides of the triterpene series and the synthesis of oleanolic acid glycosides. Izv. AN SSSR Ser. khim. no.11:2028-2036 N '64 (MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; DMITRIYEV, B.A.

New method of reducing lactones and esters of aldonic acids to sugars. Izv. AN SSSR Ser. khim. no.11:2095-2096 N '64 (MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KHORLIN, A. Ya.; BOCHKOV, A.F.; KOCHETKOV, N.K.

New synthesis of sugar orthoesters. Izv. AN SSSR Ser. khim no.12:2214-2216 D '64 (MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

SOKOLOV, S.D.; SAVUCHKINA, L.P.; KOCHETKOV, N.K.

Synthesis and properties of β-thioglucosides containing functional groups in aglucon. Zhur. ob.khim. 34 no.12:4099-4103 D '64
(MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR i Institut elementoorganicheskikh soyedineniy AN SSSR.

KOCHETKOV, N.K.; KUDRYASHOV, L.I.; SENCHENKOVA, T.M.

Effect of γ-radiation on glucosamine. Dokl. AN SSSR 154 no. 3:642-645 Ja '64. (MIRA 17:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

KHORLIN, A.Ya.; VEN'YAMINOVA, A.G.; KOCHETKOV, N.K.

Structure of calopanax-saponin A. Dokl. AN SSSR 155 no. 3:619-622 Mr '64. (MIRA 17:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

SOKOLOV, S.D.; KOCHETKOV, N.K.

New reaction of the isoxazole ring. Dokl. AN SSSR 156 no.6:1391-1394 Je '64. (MIRA 17:8)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

BUDOVSKIY, E.I.; KOCHETKOV, N.K.

Hydrazinolysis of pyrimidine nucleosides and DNA. Dokl. AN SSSR 158 no.2:379-381 S '64. (MIRA 17:10)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

CHIZHOV, O.S.; POLYAKOVA, L.A.; KOCHETKOV, N.K.

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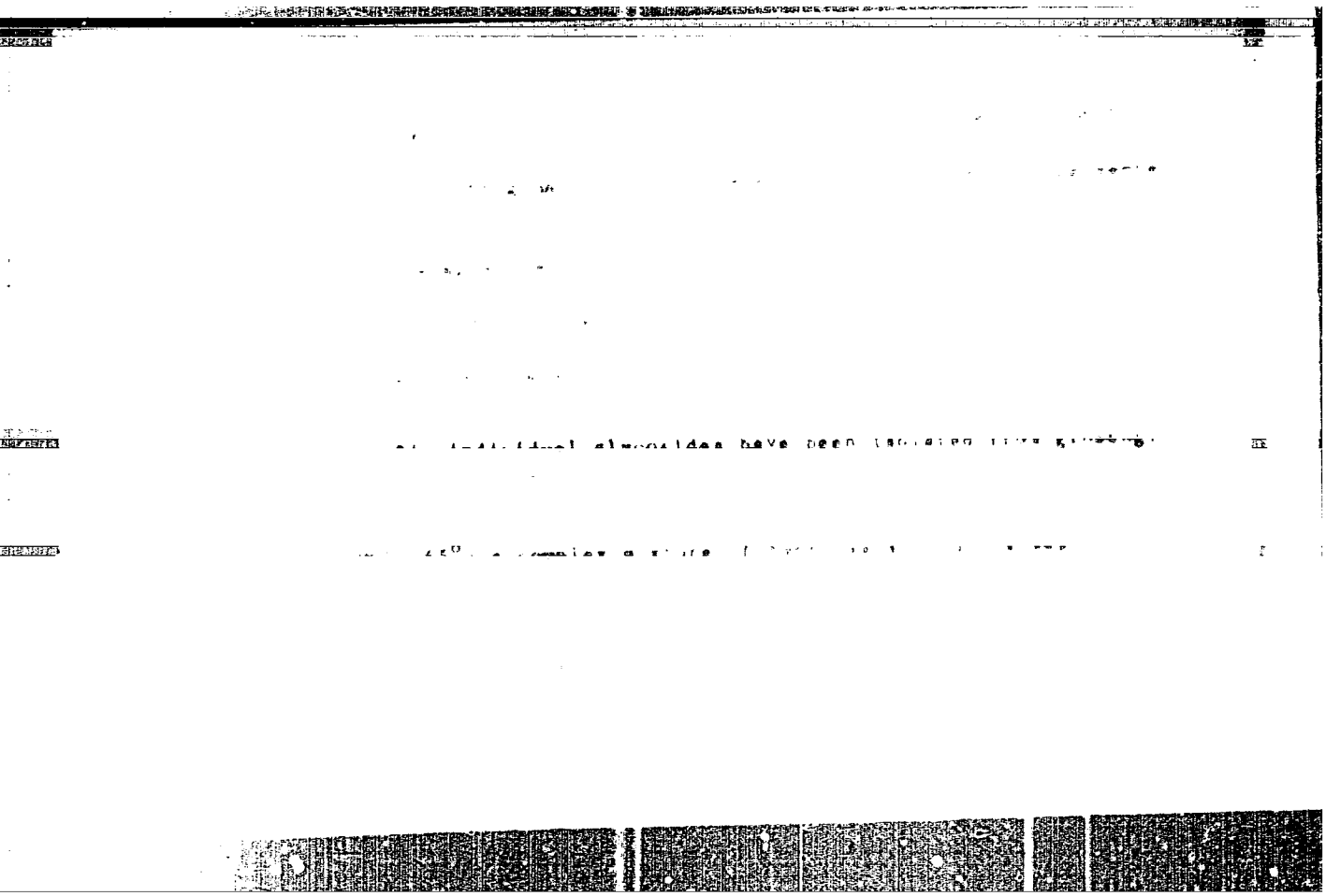
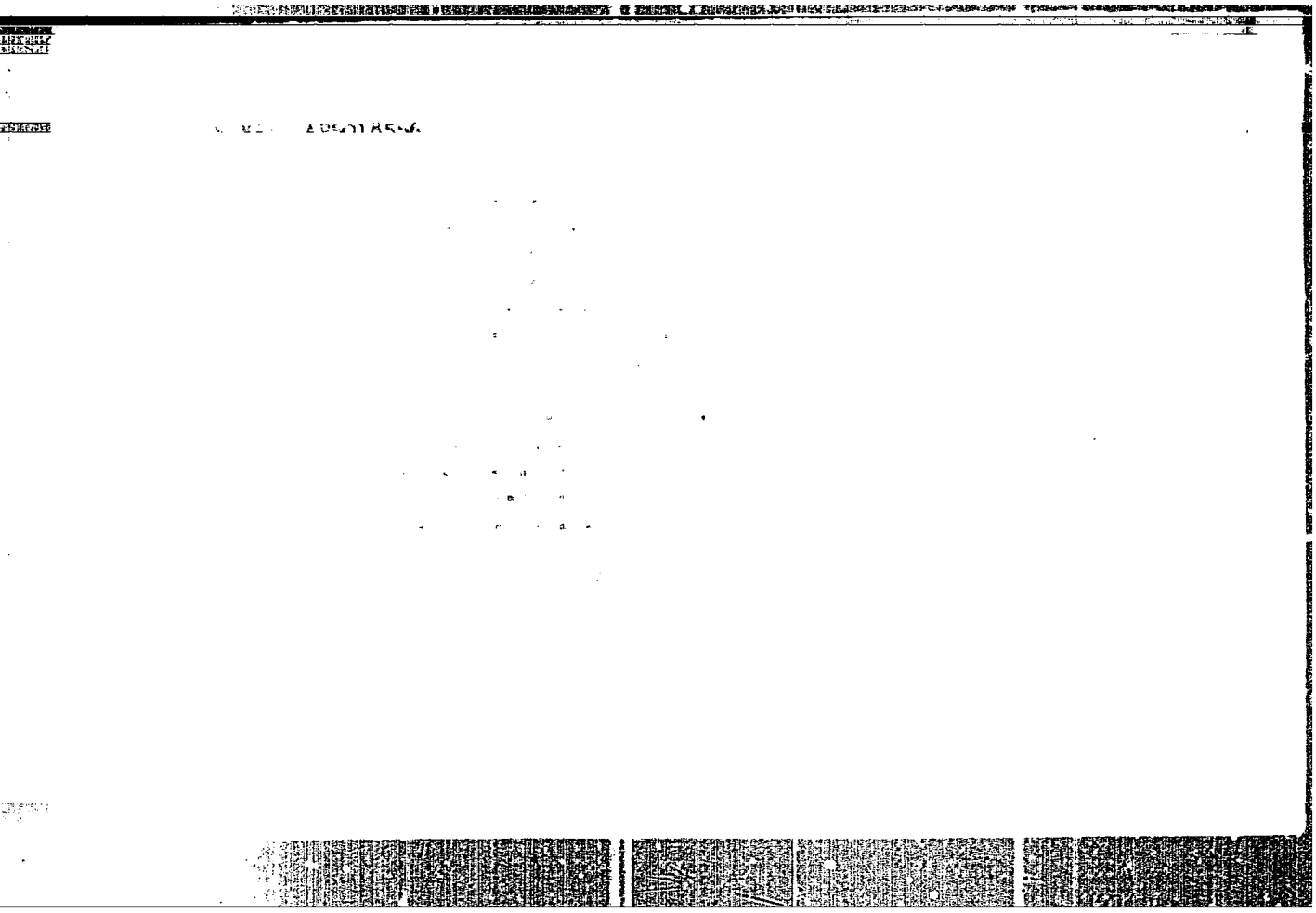
1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).





TURBIN, N.V., akademik; TROITSKIY, N.A.; FILIPPOVICH, A.S.; BUDOVSKIY, E.I.; KOCHETKOV, N.K.

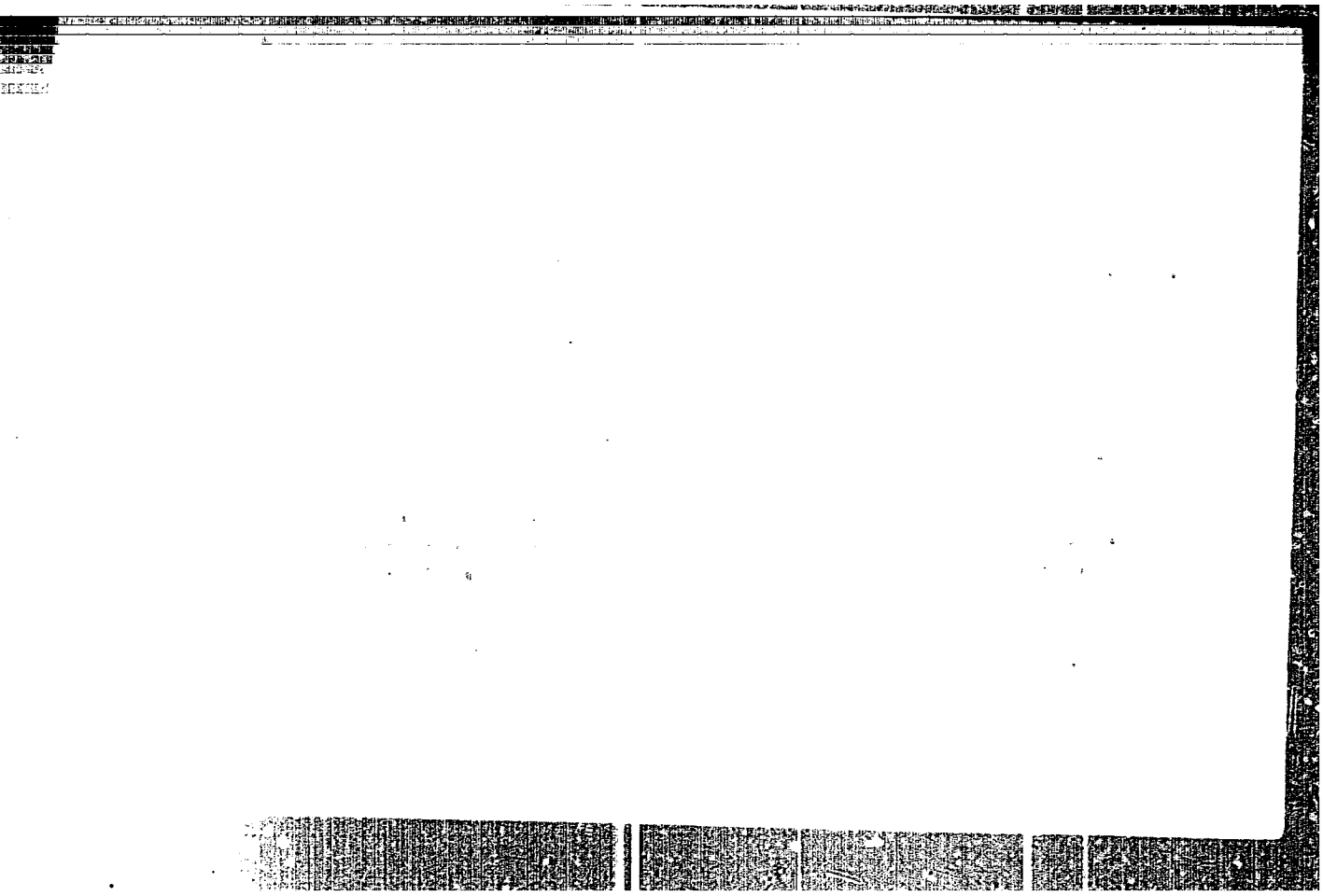
Comparison of the mutagenic activity of hydroxylamine and O-methyl-hydroxylamine. Dokl. AN SSSR 158 no.5:1197-1198 O '64. (MIRA 17:10)

1. AN BSSR (for Turbin). 2. Chlen-korrespondent AN SSSR (for Kochetkov).

KOCHETKOV, N.K.; BUDOVSKIY, E.I.; SHIBAYEV, V.N.; YELISEYEVA, G.I.

Secondary structure of nucleoside diphosphate sugars. Hydrogenation of uridine diphosphate glucose and its synthetic analogs. Dokl. AN SSSR 159 no.3:605-608 N '64 (MIRA 18:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen korrespondent AN SSSR (for Kochetkov).



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KOCHETKOV, N.K.; KHORLIN, A.Ya.; CHIZHOV, O.S.

Chemical analysis of Chinese magnolia vine. Report No.4: Extraction, structure, synthesis of deoxy schizandrine and the structure of $\sqrt{}$-schizandrine. Izv. AN SSSR. Ser. khim. no.6:1036-1042 Je '64.

(MIRA 17:11)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; BUDOVSKIY, E.I.; SHIBAYEV, V.N.

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(MIRA 18:3)

1. Institut khimii prirodnykh soyedineniy AN SSSR, Moskva.

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New way of synthesizing furanosides. Synthesis of 3-O-(β-D-galacto-furanosyl)-D-mannitol. Dokl. AN SSSR 161 no.6:1342-1345 Ap '65. (MIRA 18:5)

1. Institut prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

BUDOVSKIY, E.I.; SHIBAYEV, V.N.; YELISEYEVA, G.I.; KOCHETKOV, N.K.

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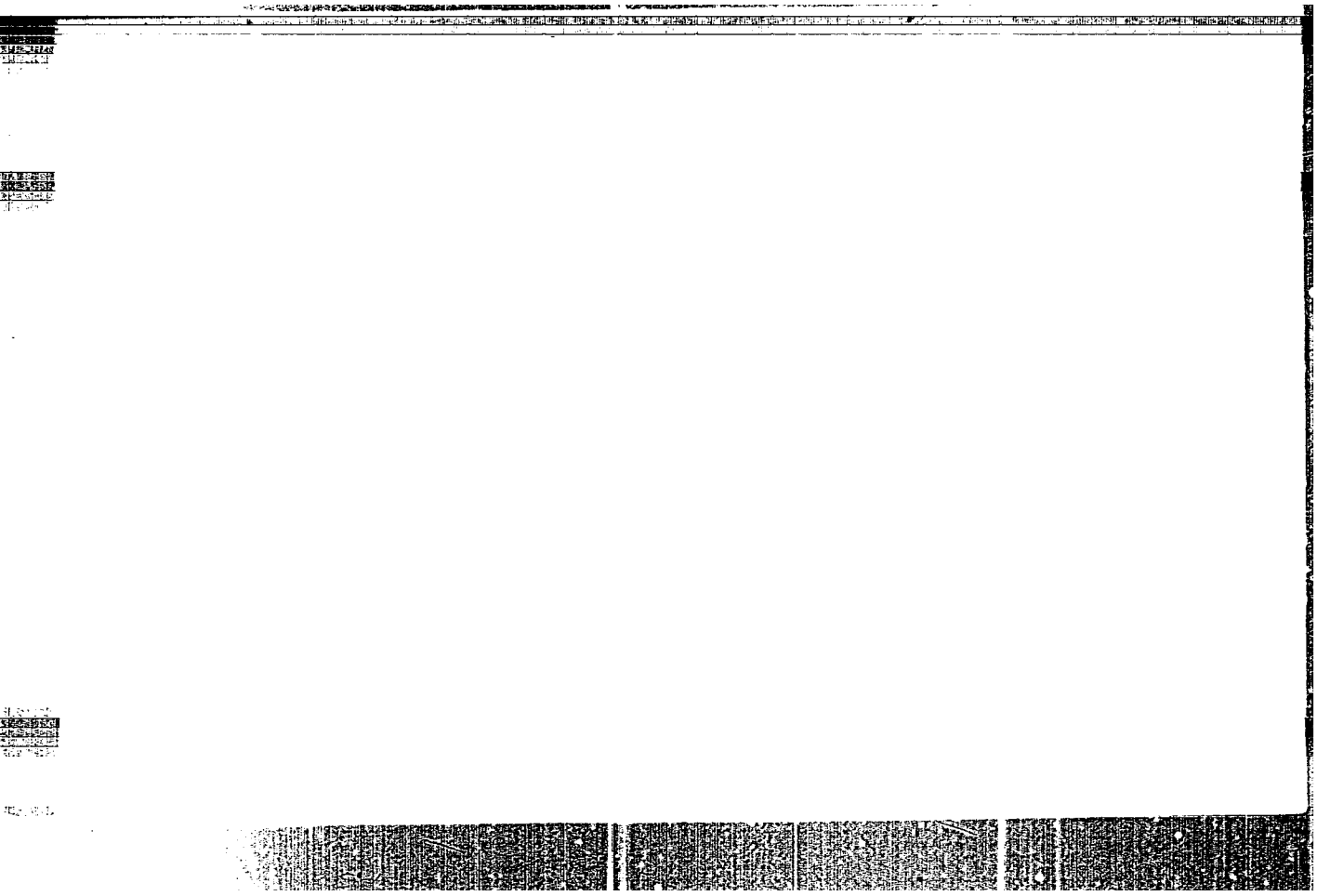
1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; KHORLIN, A.Ya.; OVODOV, Yu.S.

Triterpene saponins. Report No.9: Structure of gypsoside. Izv. AN SSSR. Ser. khim. no.8:1436-1446 Ag '64. (MIRA 17:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.



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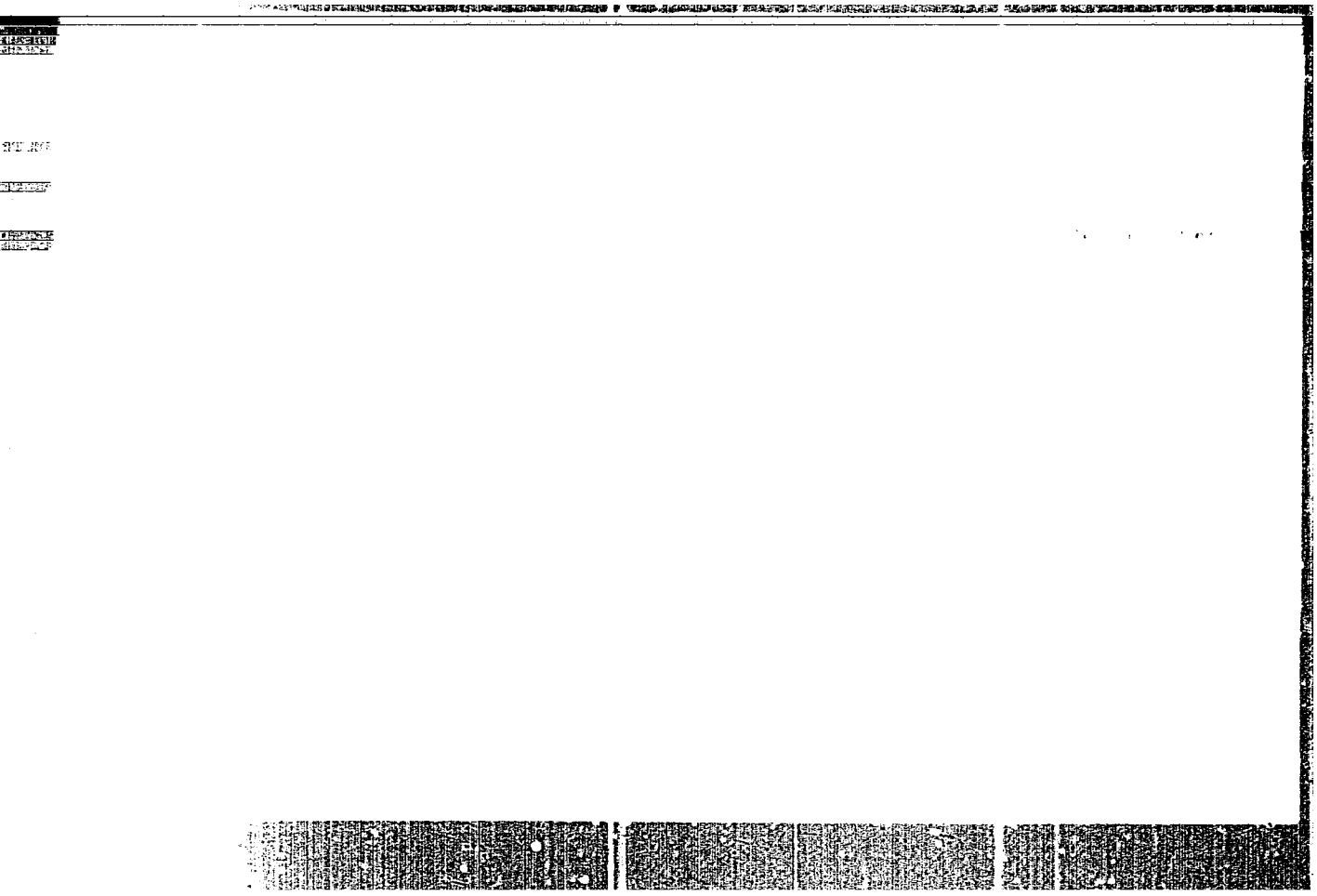

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KOCHETKOV, N.K.; KUDRYASHOV, L.I.; CHIZHOV, M.A.

Formation of deoxy sugars in the radiolysis of α-methylglycosides. Izv. AN SSSR Ser. khim. no.11:2115 N '64 (MIRA 18:1)

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KUZNYASHOV, L.I.; CHUZHOV, M.A.; KOCHETKOV, N.K.

Monosaccharides. Report No.8: Some transformations of α-methyl-4,6-benzylidene-2-deoxy-2-C-carbethoxymethyl-D-altroside. Izv. AN SSSR Ser. khim. no.1:75-79 '65. (MIRA 18:2)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; VASIL'YEV, A.Ye.; LEVCHENKO, S.N.

Pyrrolizidine alkaloids. Part 8: Synthesis of (±)-integerrinecic acid by Wittig reaction. Zhur. ob. khim. 35 no.1:190-193 Ja '65. (MIRA 18:2)

1. Institut farmakologii i khimioterapii AMN SSSR.

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Monosaccharides. Report No.9: Synthesis of D-chalcose. Izv. AN SSSR. Ser. khim. no.3:492-496 '65. (MIRA 18:5)

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KALINEVICH, V.M.; DEREVITSKAYA, V.A.; KOCHETKOV, N.K.

Glycopeptides. Report No.13: Synthesis of o-aminoacyl derivatives of N-acetylglucosamine. Izv. AN SSSR. Ser. khim. no.3:496-502 '65. (MIRA 18:5)

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KOCHETKOV, N.K.; VUL'FSON, N.S.; CHIZHOV, O.S.; ZOLOTAREV, B.M.

Mass spectrometric study of carbohydrates. Report No.3: Mechanism of decomposition of 2,3,4,6-tetramethyl-α-methyl-D-glycoside. Izv. AN SSSR. Ser. khim. no.5:776-785 '65. (MIRA 18:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KHORLIN, A.Ya.; CHIRVA, V.Ya.; KOCHETKOV, N.K.

Triterpenic saponins. Report No.15: Clematoside C, a triterpenic oligoside from roots of Clematis manshurica Rupr. Izv. AN SSSR. Ser. khim. no.5:811-818 '65. (MIRA 18:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; KUDRYASHOV, L.I.; CHLENOV, M.A.

Radiation chemistry of carbohydrates. Part 3: Effect of γ-irradiation on aqueous solutions of α-methyl-D-glycoside. Zhur. ob. khim. 35 no.5:897-900 My '65. (MIRA 18:6)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; BUDOVSKIY, E.I.; SHIBAYEV, V.N.; YELISEYEVA, G.I.

Synthesis of dihydrouridine diphosphate glucose. Izv. AN SSSR. Ser. khim. no.5:914-915 '65. (MIRA 18:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; DEREVITSKAYA, V.A.; LIKHOSHERSTOV, L.M.

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KOCHETKOV, N.K.; KUDRYASHOV, L.I.; YAROVAYA, S.M.; BORTSOVA, E.I.

Radiochemistry of carbohydrates. Part 4: Radiolysis of aqueous lactose and cellobiose solutions. Zhur. ob. khim. 35 no.7: 1191-1194 Jl '65. (MIRA 18:8)

1. Institut prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; KHORLIN, A.Ya.; VAS'KOVSKIY, V.Ye., GUDKOVA, I.P.

Triterpene saponins. Report No.16: Structure of araloside C. Izv. AN Izv. AN SSSR. Ser. khim. no.7:1214-1222 '65. (MIRA 18:7)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

DEREVITSKAYA, V.A.; KALINEVICH, V.M.; KOCHETKOV, N.K.

Synthesis of methyl ester of 9-O-glycyl-N-acetylneuraminic acid. Dokl. AN SSSR 160 no.3:596-599 Ja '65. (MIRA 18:3)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

KOCHETKOV, N.K.; KHORLIN, A.Ya.; BOCHKOV, A.F.

Synthesis of disaccharides. Dokl. AN SSSR 162 no.1:104-107 My '65.
(MIRA 18:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

KOCHETKOV, N.K.; KARA-MURZA, S.O.; DEREVITSKAYA, V.A.

Control of the homogeneity of the blood group substance by means of gel filtration. Dokl. AN SSSR 163 no.2:500-502 Jl '65. (MIRA 18:7)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

L 33108-66

ACC NR: AP6024118 SOURCE CODE: UR/0020/66/167/002/0346/0349

AUTHOR: Zhukova, I. G.; Glukhoded, I. S.; Kochetkov, N. K. (Corresponding member AN SSSR) 31 B

ORG: none

TITLE: 3-O-acylcerebrosides--new sphingolipids of the brain tissue 22

SOURCE: AN SSSR. Doklady, v. 167, no. 2, 1966, 346-349

TOPIC TAGS: brain tissue, chromatographic analysis, biologic metabolism, biochemistry, neurophysiology

ABSTRACT: The occurrence in the cerebroside fraction of mono-O-acylcerebrosides which appear to be a new type of natural sphingolipids is reported. The purpose of the research was to study the glycolipid fractions which are less polar than cerebrosides. The systematic study of the cerebroside fraction of the brain with its chromatographic separation on a silicagel column and control of the resulting fractions with thin-layer chromatography indicated that there is 1-2% glycosphingosides, which are considerably less polar than the cerebrosides, present in the cerebroside fraction of the brain of cattle. They are related to a new type of sphigolipids in which the secondary hydroxy group of the sphingosine base is substituted by a higher fatty radical. The newly obtained sphingolipids have the structure of 3-O-acylceramidgalactosides. The structure

UDC: 547.952 0915 1692

Card 1/2

Card 2/2 30

L 31215-66 EWT(m) RM

ACC NR: AP6022791 SOURCE CODE: UR/0079/66/036/002/0229/0232

AUTHOR: Kudryashov, L. I.; Bortsova, E. I.; Yarovaya, S. M.; Kochetkov, N. K. 61 B

ORG: none

TITLE: Radiation chemistry of carbohydrates. V. Formation of acid products in the radiolysis of aqueous solutions of lactose, cellobiose, and maltose

SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 229-232

TOPIC TAGS: radiation chemistry, carbohydrate, chemical decomposition, aqueous solution, isotope, gamma radiation, gamma ray absorption, hydrogen peroxide

ABSTRACT: It was found that under the action of the gamma radiation of Co^{60} on aqueous solutions of lactose, cellobiose, and maltose in the absence of oxygen, radiation hydrolysis of these carbohydrates to the corresponding monosaccharides is not accompanied by the formation of acid products. The acids formed in radiolysis are secondary products. The process of radiolysis of disaccharides in aqueous solutions in the absence of oxygen may be broken down into two steps. In the first step, below $1.8 \cdot 10^{19}$ eV/ml, no formation of acids is observed. At a higher dose, acids are formed in proportion to the absorbed radiation. Below the indicated dose limit, radiolysis occurs chiefly under the action of H and OH radicals, with the main radiation hydrolysis of the disaccharide; at higher doses the hydrogen peroxide concentration becomes appreciable, which reacts with the H and OH radicals to form the peroxide radical. This undergoes secondary reactions to form acids. Orig. art. has: 4 figures and 2 tables. [JPRS]

SUB CODE: 07, 18 / SUBM DATE: 25Nov64 / ORIG REF: 002 / OTH REF: 005

UDC: 574.454

Card 1/1 dlc

L 25600-66 EWT(m)/EWP(j)/EWA(h)/EWA(1) RM

ACC NR: AP6016708 SOURCE CODE: UR/0079/65/035/012/2246/2251

AUTHOR: Kochetkov, N. K.; Kudryashov, L. I.; Chlenov, M. A.

ORG: Institute of Chemistry of Natural Compounds, AN SSSR (Institut khimii prirodnykh soyedineniy AN SSSR)

TITLE: Radiation chemistry of hydrocarbons. VI. Radiolysis of aqueous solutions of beta-methyl-, beta-phenyl- and beta-benzyl-D-glucosides

SOURCE: Zhurnal obshchey khimii, v. 35, no. 12, 1965, 2246-2251

TOPIC TAGS: radiation chemistry, aqueous solution, gamma irradiation, radioisotope, cobalt, hydrolysis, gas chromatography

ABSTRACT: A study was made of the effect of the configuration of the glycoside center and the nature of aglycone on the course of radiolysis. Preliminary data are presented on the radiation chemical rearrangements of beta-methyl-D-glycopyranoside, beta-phenyl-D-glycopyranoside, and beta-benzyl-D-glycopyranoside. Irradiation was conducted with gamma rays from a Co-60 source on sealed glass ampoules in an atmosphere free of oxygen and nitrogen. Solutions of chromatographically pure glycosides in a 10^{-2} M concentration were used. The range of the doses was $1.25\text{-}11 \cdot 10^{19}$ ev/ml. The dose strength was $4.3 \cdot 10^{16}$ ev/ml · sec. The decomposition yields of beta-methyl-, beta-phenyl-, and beta-

Card 1/2 UDC: 541.15 : 547.91

L 25600-66

ACC NR: AP6016708

benzyl-D-glucosides, and the yields of glucose formation during their radiolysis were determined.
A substantial effect of the aglycone structure on the stability of the glycoside bond to the action of gamma-radiation in beta-methyl-, beta-phenyl-, and beta-benzyl-D-glucosides was observed.
A possible scheme is presented for the radiation chemical hydrolysis of these glucosides in which a solvated electron participates.
During radiolysis of the glucosides, acids are formed as secondary products; consequently oxidative hydrolysis practically does not occur.
The authors are grateful to V. A. Vavera for conducting the gas-liquid chromatography of the irradiated solutions. Orig. art. has: 5 figures.
[JPRS]

SUB CODE: 07, 18 / SUBM DATE: 19Apr65 / ORIG REF: 005 / OTH REF: 006

Card 2/2 FV

DEREVITSKAYA, V.A.; KALINEVICH, V.M.; KOCHETKOV, N.K.

Glycopeptides. Part 16: Synthesis of methyl ester of N-glycylmethoxyneuraminic acid. Khim.prirod.soed. no.4: 241-244 '65. (MIRA 19:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Submitted May 3, 1965.

KOCHETKOV, N.K.; BUDOVSKIY, E.I.; SHIBAYEV, V.N.

Analogs of carbohydrate metabolism coenzymes. Report No.8. Synthesis of 2-thiouridine diphosphoglucose. Khim. prirod. soed. no.6:409-414 '65. (MIRA 19:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Submitted June 14, 1965.

KOCHETKOV, N.K.; KUDRYASHOV, L.I.; CHIZHOV, M.A.

Radiation chemistry of carbohydrates. Part 6: Radiolysis of aqueous solutions of β-methyl-, β-phenyl, and β-benzyl-D-glucosides. Zhur.ob.khim. 35 no.12:2246-2251 D '65.
(MIRA 19:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Submitted April 19, 1965.

KHRENN, A.Ya.; BOCHKOV, A.F.; KOCHETKOV, N.K.

Synthesis of laminarabiose derivatives. Izv.AN SSSR. Ser.khim. no.1:168-170 '66. (MIRA 19:1)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Submitted May 17, 1965.

STEPANENKO, B.N., otv. red.; KOCHETKOV, N.K., red.; KUDRYASHOV, L.I., red.; KUZNETSOV, A.A., red.; ROZENFEL'D, Ye.L., red.; VASIL'YEVA, L.N., red.

[Chemistry and metabolism of carbohydrates; materials] Khimiia i obmen uglevodov; materialy. Moskva, Nauka, 1965. 351 p. (MIRA 19:1)

1. Vsesoyuznaya konferentsiya po probleme "Khimiya i obmen uglevodov." 3d, 1963. 2. Institut khimii prirodnykh soyedineniy AN SSSR (for Kochetkov). 3. Institut biokhimii im. A.N.Bakha AN SSSR (for Stepanenko). 4. Institut biologicheskoy i meditsinskoy khimii AMN SSSR (for Rozenfel'd).

KOCHETKOV, N.K.; BUDOVSKIY, E.I.; SHIBAYEV, V.N.

Analogs of carbohydrate metabolism coenzymes. Report No.7. Synthesis of inosytidine diphosphate glucose. Khim. prirod. soed. no.5:328-335 '65. (MIRA 18:12)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Submitted April 14, 1965.

KOCHETKOV, N.K.; KARA-MURZA, S.O.; DEREVITSKAYA, V.A.

Structure of blood group substances and acid hydrolysis of blood group substance (A + H). Izv.AN SSSR.Ser.khim. no.12:2212-2214 '65. (MIRA 18:12)

1. Institut khimii prirodnykh soyedineniy AN SSSR. Submitted April 12, 1965.

KOCHETKOV, N.K.; CHIZHOV, O.S.; ZOLOTAREV, B.M.

Mass spectrometric study of carbohydrates. Methyl ethers of some methylde oxyhexosides. Dokl. AN SSSR 165 no.3:569-572 N '65.
(MIRA 18:11)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

LIKHOSHERSTOV, A.M.; KOCHETKOV, N.K.

Advances in the chemistry of pyrrolysidine. Usp. khim. 34 no.9:1550-1582 S '65. (MIRA 18:10)

1. Institut farmakologii i khimioterapii AMN SSSR.

OVODOV, Yu.S.; OVODOVA, R.G.; SOLOV'YEVA, T.F.; YELYAKOV, G.B.; KOCHETKOV, N.K.

Glycosides from Eleutherococcus senticoccus Max. Part 1: Isolation and some properties of eleutherosides B and E. Khim.prirod.soed. 1:3-7 '65. (MIRA 18:6)

1. Dal'nevostochnyy filial Sibirskogo otdeleniya AN SSSR i Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; DMITRIYEV, B.A.

Monosaccharides. Report No.10: New synthesis of D-threo-L-galactooctose. Izv. AN SSSR. Ser. khim. no.8:1405-1412 '65.
(MIRA 18:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KOCHETKOV, N.K.; DEREVITSKAYA, V.A.; KHOMUTOV, A.Yu.; ZAPINA, M.G.; BOCHKOV, A.F.

Synthesis of methyl ester of C-(β-[illegible]furancyl)-L-serine. Izv. AN SSSR. Ser. khim. no.9:1697-1699 '65. (MIRA 18:9)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

VAFINA, M.G.; DEREVITSKAYA, V.A.; [illegible], N.K.

Glycopeptides. Report No.10: Synthesis of serine O-glycosides. Izv. AN SSSR.Ser.khim. no.10:1814-1820 '65. (MIRA 18:10)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

BUKHMAN, B.I.; NEMIKOVA, N.A.; SHIPATEVA, M.I.; [illegible] N.S.

Interaction of RNA with ω-alkylhydroxylamines. Biokhimiia 30 no.5:902-908 S-O '65. (MIRA 18:10)

1. Institut khimii prirodnykh soyedineniy AN [illegible], Minsk.

DEREVITSKAYA, V.A.; KARA-MURZA, S.G.; KOCHETKOV, N.K.

Structure of group substances of blood; alkaline hydrolysis of the A + H blood group substance. Dokl. AN SSSR 163 no.3:650-653 Jl '65. (MIRA 18:7)

1. Institut khimii prirodnykh soyedineniy AN SSSR. 2. Chlen-korrespondent AN SSSR (for Kochetkov).

6(6), 11(7) SOV/118-59-9-14/20

AUTHORS: Vasil'yev M.V., Candidate of Technical Sciences, and Kochetkov N.T. and Subbotin A.N., Engineers

TITLE: Television in Open Pit Mines

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959, Nr. 9, pp 56-60 (USSR)

ABSTRACT: The chief purpose of industrial television is a visual control over mining processes remote or inaccessible for a direct observation. It can convey to one or several control posts reliable information about the work carried out in one or several sections. With the aid of television, an operative control over all basic production processes, such as drilling, loading, transportation and unloading of mined mass, is realized. Industrial television installations applied in open pit mines consist of three basic components: transmitter, amplifier, and receiver with screen, all connected by a special cable (Fig. 1). Transmission of vision and sound signals can be performed either by cables or by wireless methods.

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Television in Open Pit Mines

In industrial television installations used in open pit mines, the co-axial cable system is applied, as it decreases the influence of different disturbances appearing as a result of work of electric installations and other machines in the mine. Depending on their construction, transmitting tubes of television installations differ by their sensitivity and have different periods of service. In the USSR, industrial television installations are provided with transmitting tubes "Vidikon" and "Superortikon". The amplifier is intended for strengthening incoming vision signals and increasing them to a size, permitting the reception of a normal image on the screen. The amplifier is connected between the transmitter and the screen. The size of the receiver screen depends on the size of the receiving tube, and averages to 17-18 cm. Depending on the purpose of the television installation, different connection layouts are used; sometimes, several transmitters are connected to one receiver; in other cases, one transmitter is connected with several receivers located at different points. One trans-

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Television in Open Pit Mines

mitter can simultaneously send the image to 4-5 screens. The Central Scientific-Research Institute of Television has worked out a number of designs intended for serial production. Among them is the installation with transmitting tubes "Vidikon" (PTU-0, PTU-1, PTU-2) and "Superortikon" (PTU-3). The installation PTU-3 is shown in Fig. 2. It ensures definition of the image up to 600 lines. A wide application of television is planned in the Bazhenovskiye quarries of the Trust "Soyuzasbest", and in the quarries of the Southern and Central Mining Administrations. It is intended to improve the installation PTU-3 or PTU-4 in such a way that it would permit reception from 12 transmitters; at the same time, it is planned to increase the distance between the transmitter and the amplifier to 800 m, and from the amplifier to the receiver - to 1000 m. A television installation for superintendence of unloading of ores at the Magnitogorsk Metallurgical Combine is at present used. Transmitter PTU-3 is placed on a special 4 m high tower; receiving devices are located in the dispatch room, 150 m away from the object of observation. There are 2 photographs.

VASIL'YEV, M.V., kand.tekhn.nauk; SUKHOTIN, A.M., gornyy, insh.; KOCHERGIN, M.P., gornyy insh.

Using rippers for mining thin coal seams in open-pit mines. Ugol' 35 no.3:15-18 Mr '60. (MIRA 13:6)

1. Gorno-geologicheskiy institut Ural'skogo filiala AN SSSR. (Strip mining) (Coal mining machinery)

KOCHETKOV, M.T.

Operating the strip mines of the "Yakhrushevugol'" Trust.
Trudy Gor.-geol. inst. UFAN SSSR no.34:165-172 '58. (MIRA 14:10)
(Sverdlovsk Province--Coal mines and mining--Labor productivity)
(Hours of labor)

KOCHETKOV, N.T.

Analysis of the results of converting Ural coal pits to a shorter working day and a new wage system. Trudy Gor.-geol. inst. UFAN SSSR no.57:67-72 '61. (MIRA 15:3)
(Ural Mountain region--Wages--Coal miners)
(Hours of labor)

KOCHETKOV, N.T.

Study of the relationship between the length of the working day of an excavator and its hourly productivity. Trudy Gor.-geol. inst. UFAN SSSR no.57:91-99 '61. (MIRA 15:3)
(Excavating machinery)

KOCHETKOV, N.T., kand.tekhn.nauk

Calculation of the performance of excavators with automatic recorders.
Gor. zhur. no.5:66 My '63. (MIRA 16:5)

1. NIIEkonomiki, Sverdlovsk.
(Excavating machinery) (Automatic control)

ACC NR: AP7000129 SOURCE CODE: UR/0115/66/000/011/0018/0019

AUTHOR: Keirim-Markus, I. B.; Kochetkov, O. A.; Moskalev, Yu. I.; Popov, V. I.

ORG: none

TITLE: Measurement units used in ionizing radiation dosimetry and radiation safety equipment

SOURCE: Izmeritel'naya tekhnika, no. 11, 1966, 18-19

TOPIC TAGS: ionizing radiation biologic effect, relative biologic efficiency, radiobiology, x ray radiation biologic effect, radiation shielding, radiation safety, radiation dosimetry

ABSTRACT: The authors criticize GOST 8848-63, adopted 1 July 1964, which established joules/kg and coulombs/kg as standard units for measurement of ionizing radiation absorbed dose and exposure, respectively. In so doing, this GOST standard ignored the decision of the ICRU (International Commission on Radiological Units) to recommend the use of the rad (=1 centijoule/kg) and roentgen (=0.257976 millicoulomb/kg), which are the units in which almost all presently used instrumentation is calibrated and almost all current research expressed. The cumbersome numerical data conversions required by use of the GOST units will afflict not only all studies involving absorbed doses expressed in rads and exposures in roentgens, but also all biological shielding calculations containing equivalent or effective dose units (ber, rem) based on rad and roentgen. Indeed, GOST 8848-63 provides no units whatever

Card 1/2 UDC: 577.391(017)

ACC NR: AP7000129

for the measurement of dose equivalents. The authors propose that GOST 8848-63 be revised to establish the generally used and ICRU-recommended units of rad, roentgen, and ber as standard units, and further suggest that any new units for radiological measurement should not be officially adopted by individual countries unilaterally, but proposed through and approved by the ICRU. [DP]

SUB CODE: 18, 06/ SUBM DATE: 04May66/ ORIG REF: 005/ OTH REF: 004/
ATD PRESS: 5110

Card 2/2

KOCHETKOV, O.S.

Mineralogeochemical characteristics of leucoxenes as revealed by a study of leucoxenes in the Timan Range. Lip. i pol. iskop. no.6:83-90 M-D '64. (MIRA 18:3)

1. Institut geologii, g. Syktyvkar.

KOCHETKOV, O.S.

Paleogeography of the Tatarian stage in the northern part of the Russian Platform based on terrigenous components. Trudy Inst. geol.Komi fil. AN SSSR no.3:97-102 '62. (MIRA 16:9)
(Russian Platform--Paleogeography)

KOCHETKOV, O.S.

Geology of the Devonian of the Kanin Peninsula. Dokl. AN SSSR 149 no.4:931-934 Ap '63. (MIRA 16:3)

1. Institut geologii Komi filiala AN SSSR. Predstavleno akademikom A.L.Yanshinym.
(Kanin Peninsula—Geology, Stratigraphic)

KOCHETKOV, O.S.

Mineralogical correlatives in deposits of the Tatar stage in the northwestern part of the Russian Platform. Dokl.AN SSSR 134 no.4:905-908 O '60. (MIRA 13:9)

1. Institut geologii Komi filiala Akademii nauk SSSR. Predstavleno akad. N.M.Strakhovym.
(Russia, Northwestern--Geology, Stratigraphic)